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APPLICATION NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/787,859 03/22/2001	Uwe Sydon	P01,0018	8027
29177 7590 04/08/2004		EXAMINER	
BELL, BOYD & LLOYD, LLC		PERILLA, JASON M	
P. O. BOX 1135 CHICAGO, IL 60690-1135		. ART UNIT	PAPER NUMBER
		. 2634	
		DATE MAILED: 04/08/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)				
		09/787,85	59	SYDON ET AL.				
		Examiner		Art Unit				
•		Jason M F	Perilla	2634				
Period fo	The MAILING DATE of this communicated Reply	ation appears on the	cover sheet with the c	orrespondence address				
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply will eply received by the Office later than three months after department adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evolication. days, a reply within the stat tory period will apply and w II, by statute, cause the app	ent, however, may a reply be tin utory minimum of thirty (30) day Il expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status			•					
1)🖾	Responsive to communication(s) filed	on <u>22 March 2001</u> .						
2a)□								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims			•				
5)□ 6)⊠ 7)□	Claim(s) <u>1-19</u> is/are pending in the appearance of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-19</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from co						
Applicati	on Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on 22 March 2001 Applicant may not request that any objecti Replacement drawing sheet(s) including the oath or declaration is objected to the	is/are: a) acception to the drawing(s) the correction is required.	ne held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119			·				
a)l	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International cee the attached detailed Office action	ocuments have bee ocuments have bee the priority documental al Bureau (PCT Rul	n received. In received in Applicati ents have been receive e 17.2(a)).	on No ed in this National Stage				
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO-1449 or P		· —					
	nation Disclosure Statement(s) (PTO-1449 or P [*] r No(s)/Mail Date <u>4-3/01</u> .	TO/SB/08)	6) Other:	atent Application (PTO-152)				

Application/Control Number: 09/787,859 Page 2

Art Unit: 2634

DETAILED ACTION

1. Claims 1-19 are pending in the instant application.

Priority

- Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d). *Information Disclosure Statement*
- 3. The information disclosure statement (IDS) received on March 22, 2001 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

- 4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "6" and "7" have both been used to designate a single antenna on figure 5. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. The Examiner notes the use of both 6 and 7 to designate the same item is not clear in view of the references 6 and 7 in figure 1. The Applicant is required to make corrections to the drawings and specification where required.
- 5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "20" and "21" have both been used to designate a controller on figure 6. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance. The Examiner notes the use of

Application/Control Number: 09/787,859

Art Unit: 2634

both 20 and 21 to designate the same item is not clear in view of the references 20 and 21 in figure 1. The Applicant is required to make corrections to the drawings *and* specification where required.

Page 3

- 6. Figure 5 is objected to because it may confuse the embodiment of the invention. Reference 22 is internally labeled "QPSK-Mod./Demod.", however, the specification clearly points out that the controller (22) of figure 5 transmits GFSK modulated data to the ASIC (23) (page 10, lines 25-30). It is suggested that "QPSK" is stricken from the label of reference 22 or that it is replaced by GFSK.
- 7. Figure 6 is objected to because it may confuse the embodiment of the invention. Reference 20 or 21 is internally labeled "QPSK-Mod./Demod.", however, the specification clearly points out that the controller (20 or 21) of figure 6 transmits GFSK modulated data to the ASIC (23). It is suggested that "QPSK" is stricken from the label of reference 22 or that it is replaced by GFSK.
- 8. The proposed drawing changed submitted March 22, 2001 are approved by the examine

Claim Objections

- The claims are generally narrative and indefinite, failing to conform with current
 U.S. practice. They appear to be a literal translation into English from a foreign
 document and are replete with grammatical and idiomatic errors.
- 10. Claims are objected to because of the following informalities:

Art Unit: 2634

Regarding claim 1, the terms "gives them to the" in line 6 should be replaced by – supplies— to make the claim read clearly. Alternatively, the terms "gives them to the" should be replaced at the Applicant's discretion to further the clarity of the claim.

Regarding claim 2, the phrase "controller in synchronized" beginning on line 2 should be replaced by –controller during synchronized--.

Regarding claim 3, the acronym DECT should be defined in the claim.

Regarding claim 6, the phrase "data are modulated" should be replaced by –data is modulated--.

Regarding claim 8, the acronym ASIC should be defined in the claim.

Regarding claim 12, the acronym DECT should be defined in the claim.

Regarding claim 15, the phrase "according to" is duplicated in line 1.

Regarding claim 18, there is no antecedent basis for "the carrier frequency" in line 2.

Regarding claim 19 there is no antecedent basis for "the carrier frequency" in line

1.

Claim Rejections - 35 USC § 112

11. Claims 1-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 and 10, the preamble of each of claims 1 and 10 clearly point to a transmitter or to a method of data transmission. However, the body of each of claims 1 and 10 provides limitations including the reception of data. Hence, the claims

Application/Control Number: 09/787,859

Art Unit: 2634

become indefinite because it is unclear how a receiver or method for reception is to be included in only a transmitter or method for transmission:

Regarding claim 5, the limitation including "the synchronization received signal" in line 2 is lacking antecedent basis. Further, there are alternative interpretations one could make of a synchronization received signal due to lacking antecedent basis. For instance, claim 5 depends on claim 4 which provides antecedent basis for an adaptor module that "synchronizes to a received QPSK-modulated signal". Hence, the limitation of "time shifts the synchronization received signal" of claim 5 could be interpreted to be time shifting of the received QPSK-modulated data. However, claim 2 (although not a parent of claim 5) provides more probable antecedent basis with "a synchronization signal" in line 2. Therefore, the claim is ultimately indefinite and does require clarification.

Regarding claims 2-4, 6-9, and 11-19, the claims are rejected as being dependent upon rejected parent claims.

Allowable Subject Matter

- 12. Claims 1-19 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 13. The following is a statement of reasons for the indication of allowable subject matter:

The independent claims 1 and 10 provide for an adaptor module which is inline between an RF transmitter and a GFSK controller. The adaptor module converts GFSK modulated data output form the GFSK controller to QPSK modulated data as input to

Page 5

Page 6

the RF transmitter. Further, the adaptor will convert received QPSK modulated data into GFSK modulated data for input to the controller. The prior art references do not disclose the inline adaptor for modulation conversion from GFSK to QPSK and from QPSK to GFSK. While the prior art may disclose switching between one modulation technique to another, it does not disclose a converter or adaptor.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following references are cited to further show the state of the art with respect to telecommunications among a plurality of frequency bands.

- U.S. Pat. No. 5737703 to Byrne; Modulation handover method.
- U.S. Pat. No. 5790587 to Smith et al; Multi-band system.
- U.S. Pat. No. 5794159 to Portin; Dual band mobile station.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M Perilla whose telephone number is (703) 305-0374. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Chin can be reached on (703) 305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

InRh

Jason M Perilla March 24, 2004

jmp

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